

1646

#10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/404,010A

DATE: 10/25/2000
TIME: 15:41:37

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ENTERED

3 <110> APPLICANT: Luo, Ying
4 Xu, Xiang
6 <120> TITLE OF INVENTION: Novel Traf4 Associated Cell Cycle Proteins,
7 Compositions and Methods of Use
9 <130> FILE REFERENCE: A68294/DJB/RMS/DAV
11 <140> CURRENT APPLICATION NUMBER: 09/404,010A
12 <141> CURRENT FILING DATE: 1999-09-23
14 <160> NUMBER OF SEQ ID NOS: 9
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 2644
20 <212> TYPE: DNA
21 <213> ORGANISM: Homo sapiens
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26 gggccctggg cctgcaccg cggccgcaag aaggccacag gcagcccggt gtccatcttc 180
27 gtctatgatg tgaagcctgg cgcggaarga gcagaccag gtggccaaag ctgccttcaa 240
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30 agagtggagg ctggtggcct gaaggagctg gagatctcct gggggctaca ccagatcggt 420
31 aaagccctca gttcctcgtt caacgactgc agcctcatcc acaacaatgt ctgcatggcc 480
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52 cagctggagg aagtggagaa ggaatgtccat gcagcctcca gccctggcat gggaggagcc 1740
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54 cgttcgcacc caaccactgc cccaacagaa accaacattc cccaaagacc cagccctgaa 1860
55 ggagtctcct ccccgcccc caccctgtt cctgccaccc ctacaacctc aggccactgg 1920
56 gagacgcagg aggaggacaa ggacacagca gaggacagca gcactgtga cagatgggac 1980

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57 gacgaagact ggggcagcct ggagcaggag gccgagctctg tgctggccca gcaggacgac 2040
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59 tccaaatccc cagagtccga ctggagcagc tgggaagctg agggctcctg ggaacagggc 2160
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61 aactggggtg gcccgagtc cagcgacaag ggcgaccct tcgtaccct gtctgcagt 2280
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66 tatttattgt acaaacatg tgagcccggc cggcccagcc aggccatctc acgtgtacat 2580
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71 <210> SEQ ID NO: 2

72 <211> LENGTH: 832

73 <212> TYPE: PR

74 <213> ORGANISM: Homo sapiens

76 <400> SEQUENCE: 2

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80 Pro Ala Ala Ala Val Gly Thr Met Trp Phe Phe Ala Arg Asp Pro Val
81 20 25 30
83 Arg Asp Phe Pro Phe Glu Leu Ile Pro Glu Pro Pro Glu Gly Gly Leu
84 35 40 45
86 Pro Gly Pro Trp Ala Leu His Arg Gly Arg Lys Lys Ala Thr Gly Ser
87 50 55 60
89 Pro Val Ser Ile Phe Val Tyr Asp Val Lys Pro Gly Ala Glu Glu Gln
90 65 70 75 80
92 Thr Gln Val Ala Lys Ala Ala Phe Lys Arg Phe Lys Thr Leu Arg His
93 85 90 95
95 Pro Asn Ile Leu Ala Tyr Ile Asp Gly Leu Glu Thr Glu Lys Cys Leu
96 100 105 110
98 His Val Val Thr Glu Ala Val Thr Pro Leu Gly Ile Tyr Leu Lys Ala
99 115 120 125
101 Arg Val Glu Ala Gly Gly Leu Lys Glu Leu Glu Ile Ser Trp Gly Leu
102 130 135 140
104 His Gln Ile Val Lys Ala Leu Ser Phe Leu Val Asn Asp Cys Ser Leu
105 145 150 155 160
107 Ile His Asn Asn Val Cys Met Ala Ala Val Phe Val Asp Arg Ala Gly
108 165 170 175
110 Glu Trp Lys Leu Gly Gly Leu Asp Tyr Met Tyr Ser Ala Gln Gly Asn
111 180 185 190
113 Gly Gly Gly Pro Pro Arg Lys Gly Ile Pro Glu Leu Glu Gln Tyr Asp
114 195 200 205
116 Pro Pro Glu Leu Ala Asp Ser Ser Gly Arg Val Val Arg Glu Lys Trp
117 210 215 220
119 Ser Ala Asp Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn
120 225 230 235 240
122 Gly Pro Leu Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro
123 245 250 255

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125 Lys Thr Leu Ala Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys
126          260          265          270
128 Val Arg Pro Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly
129          275          280          285
131 Gly Phe Met Ser Asn Arg Phe Val Glu Thr Asn Leu Phe Leu Glu Glu
132          290          295          300
134 Ile Gln Ile Lys Glu Pro Ala Glu Lys Gln Lys Phe Phe Gln Glu Leu
135 305          310          315          320
137 Ser Lys Ser Leu Asp Ala Phe Pro Glu Asp Phe Cys Arg His Lys Leu
138          325          330          335
140 Leu Pro Gln Leu Leu Thr Ala Phe Glu Phe Gly Asn Ala Gly Ala Val
141          340          345          350
143 Val Leu Thr Pro Leu Phe Lys Val Gly Lys Phe Leu Ser Ala Glu Glu
144          355          360          365
146 Tyr Gln Gln Lys Ile Ile Pro Val Val Val Lys Met Phe Ser Ser Thr
147          370          375          380
149 Asp Arg Ala Met Arg Ile Arg Leu Leu Gln Gln Met Glu Gln Phe Ile
150 385          390          395          400
152 Gln Tyr Leu Asp Glu Pro Thr Val Asn Thr Gln Ile Phe Pro His Val
153          405          410          415
155 Val His Gly Phe Leu Asp Thr Asn Pro Ala Ile Arg Glu Gln Thr Val
156          420          425          430
158 Lys Ser Met Leu Leu Ala Pro Lys Leu Asn Glu Ala Asn Leu Asn
159          435          440          445
161 Val Glu Leu Met Lys His Phe Ala Arg Leu Gln Ala Lys Asp Glu Gln
162          450          455          460
164 Gly Pro Ile Arg Cys Asn Thr Thr Val Cys Leu Gly Lys Ile Gly Ser
165 465          470          475          480
167 Tyr Leu Ser Ala Ser Thr Arg His Arg Val Leu Thr Ser Ala Phe Ser
168          485          490          495
170 Arg Ala Thr Arg Asp Pro Phe Ala Pro Ser Arg Val Ala Gly Val Leu
171          500          505          510
173 Gly Phe Ala Ala Thr His Asn Leu Tyr Ser Met Asn Asp Cys Ala Gln
174          515          520          525
176 Lys Ile Leu Pro Val Leu Cys Gly Leu Thr Val Asp Pro Glu Lys Ser
177          530          535          540
179 Val Arg Asp Gln Ala Phe Lys Ala Phe Arg Ser Phe Leu Ser Lys Leu
180 545          550          555          560
182 Glu Ser Val Ser Glu Asp Pro Thr Gln Leu Glu Glu Val Glu Lys Asp
183          565          570          575
185 Val His Ala Ala Ser Ser Pro Gly Met Gly Gly Ala Ala Ala Ser Trp
186          580          585          590
188 Ala Gly Trp Ala Val Thr Gly Val Ser Ser Leu Thr Ser Lys Leu Ile
189          595          600          605
191 Arg Ser His Pro Thr Thr Ala Pro Thr Glu Thr Asn Ile Pro Gln Arg
192          610          615          620
194 Pro Thr Pro Glu Gly Val Pro Ala Pro Ala Pro Thr Pro Val Pro Ala
195 625          630          635          640
197 Thr Pro Thr Thr Ser Gly His Trp Glu Thr Gln Glu Glu Asp Lys Asp

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201          660          665          670
203 Gly Ser Leu Glu Gln Glu Ala Glu Ser Val Leu Ala Gln Gln Asp Asp
204          675          680          685
206 Trp Ser Thr Gly Gly Gln Val Ser Arg Ala Ser Gln Val Ser Asn Ser
207          690          695          700
209 Asp His Lys Ser Ser Lys Ser Pro Glu Ser Asp Trp Ser Ser Trp Glu
210 705          710          715          720
212 Ala Glu Gly Ser Trp Glu Gln Gly Trp Gln Glu Pro Ser Ser Gln Glu
213          725          730          735
215 Pro Pro Ser Asp Gly Thr Arg Leu Ala Ser Glu Tyr Asn Trp Gly Gly
216          740          745          750
218 Pro Glu Ser Ser Asp Lys Gly Asp Pro Phe Ala Thr Leu Ser Ala Arg
219          755          760          765
221 Pro Ser Thr Gln Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu
222          770          775          780
224 Gly Leu Glu Thr Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys
225 785          790          795          800
227 Lys Arg Glu Glu Arg Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg
228          805          810          815
230 Lys Val Ala Lys Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp Glx
231          820          825          830
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238 <211> LENGTH: 9
239 <212> TYPE: PRT
240 <213> ORGANISM: Mouse
242 <400> SEQUENCE: 3
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244 1          5
247 <210> SEQ ID NO: 4
248 <211> LENGTH: 9
249 <212> TYPE: PRT
250 <213> ORGANISM: Mouse
252 <400> SEQUENCE: 4
253 Arg Thr Ala Leu Gly Asp Ile Gly Asn
254 1          5
257 <210> SEQ ID NO: 5
258 <211> LENGTH: 27
259 <212> TYPE: PRT
260 <213> ORGANISM: Rat
262 <400> SEQUENCE: 5
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264 1          5          10          15
266 Pro Lys Lys Met Leu Gln Leu Val Gly Val Thr
267          20          25
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271 <211> LENGTH: 28
272 <212> TYPE: PRT

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273 <213> ORGANISM: Mouse
275 <400> SEQUENCE: 6
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279 Asp Arg Phe Met Gln Asn Ser Cys Val Pro Lys Lys
280   20           25
283 <210> SEQ ID NO: 7
284 <211> LENGTH: 27
285 <212> TYPE: PRT
286 <213> ORGANISM: Mouse
288 <400> SEQUENCE: 7
289 Arg Ala Ile Leu Ile Asp Trp Leu Ile Gln Val Gln Met Lys Phe Arg
290   1           5           10           15
292 Leu Leu Gln Glu Thr Met Tyr Met Thr Val Ser
293   20           25
296 <210> SEQ ID NO: 8
297 <211> LENGTH: 27
298 <212> TYPE: PRT
299 <213> ORGANISM: Mouse
301 <400> SEQUENCE: 8
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305 Val Gly Ile Thr Ala Leu Leu Leu Ala Ser Lys
306   20           25
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310 <211> LENGTH: 18
311 <212> TYPE: PRT
312 <213> ORGANISM: Mouse
314 <400> SEQUENCE: 9
315 Met Ser Val Leu Arg Gly Lys Leu Gln Leu Val Gly Thr Ala Ala Met
316   1           5           10           15
318 Leu Leu

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